

## AMENDMENTS TO THE SPECIFICATION

- Please amend the Brief Description of the Drawings, which begins on page 13, line 7, as follows:

Figure 7 is a histogram similar to Fig. 6 related to both wide and narrow band noises;  
and

Figure 8 is a histogram similar to Fig. 6 related to both wide band noise and  
~~clipping, clipping; and~~

Figure 9 is a flow chart 900 of a method for detecting and quantifying impairments of  
a received communication signal of a quadrature amplitude modulation data communication  
system represented by a plurality of ideal values.

- Please amend page 29 by inserting the following after the paragraph starting on page 29,  
line 10:

Referring now to FIG. 9, according to one aspect of the present invention, there is  
provided a method 900 for detecting and quantifying impairments of a received  
communication signal of a quadrature amplitude modulation data communication system  
represented by a plurality of ideal values, said method comprises the steps of:

a) storing 902 a statistically significant number of a plurality of received points of said  
signal for each of said ideal values corresponding to a plurality of groups of said plurality of  
ideal values, each of said received points being defined by an in-phase and a quadrature  
components in a coordinate system in which a first axis is an in-phase axis and a second axis  
is a quadrature axis, said components having corresponding ideal components from their  
respective of said ideal values, each of said groups corresponding to a respective of said  
impairments and being specific to the same;

b) analyzing 904 said components of said received points of respective of said groups  
in relation with their respective of said ideal components of said ideal values to quantify said  
impairments of said signal and provide calculated values of the same; and

c) displaying 906 said calculated values of said impairments.